PATENT COOPERATION TREATY

C. Palgata

From the INTERNATIONAL SEARCHING AUTHORITY	SOSIVED PCT					
To: HONEYWELL INTERNATIONAL INC. Attn. Hoiriis, David 101 Columbia Road P.O. Box 2245 Morristown, New Jersey 07960 UNITED STATES OF AMERICA						
	Date of mailing (day/month/year) 29/03/2004					
Applicant's or agent's file reference H0003211	FOR FURTHER ACTION See paragraphs 1 and 4 below					
International application No. PCT/US 03/34219	International filing date (day/month/year) 28/10/2003					
Applicant HONEYWELL INTERNATIONAL INC.						
1. The applicant is hereby notified that the International Search Report has been established and is transmitted herewith. Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46): When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet. Where? Directly to the International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Fascimile No.: (41–22) 740.14.35 For more detailed instructions, see the notes on the accompanying sheet. 2. The applicant is hereby notified that no International Search Report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith. 3. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that: the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made. 4. Further action(s): The applicant is reminded of the following: Shortly after 18 months from the priority date, the international application will be published by the International Bureau.						
If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for International publication. Within 19 months from the priority date, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later).						
Within 20 months from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected in the demand or in a later election within 19 months from the priority date or could not be elected because they are not bound by Chapter II.						
Name and mailing address of the International Searching Authority European Patent Office, P.B. 5818 Patentiaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Christine Voigt					

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international policiation. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been its filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled:
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
 "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER see Notific	cation of Transmittal of International Search Report
H0003211		[//SA/220] as well as, where applicable, item 5 below.
International application No.	International filing date (day/month/yea	(Earliest) Priority Date (day/month/year)
PCT/US 03/34219	28/10/2003	01/11/2002
Applicant		-
HONEYWELL INTERNATIONAL IN	NC.	
This International Search Report has been according to Article 18. A copy is being tra	n prepared by this International Searchir ansmitted to the International Bureau.	ng Authority and is transmitted to the applicant
This International Search Report consists It is also accompanied by	of a total of sheets a copy of each prior art document cited	
Basis of the report		
With regard to the language, the language in which it was filed, unit	international search was carried out on t less otherwise indicated under this item.	the basis of the international application in the
the international search w Authority (Rule 23.1(b)).	as carried out on the basis of a translati	ion of the international application furnished to this
b. With regard to any nucleotide an	d/or amino acid sequence disclosed in	n the international application, the international search
was carried out on the basis of the contained in the internation	e sequence listing : onal application in written form.	
	ernational application in computer readat	ble form.
1 ==	this Authority in written form.	
	this Authority in computer readble form	
the statement that the sub		sting does not go beyond the disclosure in the
		form is identical to the written sequence listing has been
2. Certain claims were fou	nd unsearchable (See Box I).	•
3. Unity of invention is lac	king (see Box II).	
4. With regard to the title ,		
X the text is approved as su	bmitted by the applicant.	
	hed by this Authority to read as follows:	
5. With regard to the abstract,		
X the text is approved as su	bmitted by the applicant.	
the text has been establish within one month from the	ned, according to Rule 38.2(b), by this A date of mailing of this international sea	Authority as it appears in Box III. The applicant may, rch report, submit comments to this Authority.
6. The figure of the drawings to be publi	ished with the abstract is Figure No.	1
X as suggested by the applic	cant.	None of the figures.
because the applicant faile		
because this figure better	characterizes the invention.	

INTERNATIONAL SEARCH REPORT

International Application No PCT/US 03/34219

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 HO2M3/337 HO2M H02M7/10 According to International Patent Classification (IPC) or to both national classification and IPC Minimum documentation searched (classification system followed by classification symbols) IPC 7 HO2M B05B H05G Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) PAJ, EPO-Internal, WPI Data, INSPEC, IBM-TDB C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Category ° Relevant to claim No. X PATENT ABSTRACTS OF JAPAN 1,5-8,15vol. 1998, no. 10, 31 August 1998 (1998-08-31) -& JP 10 134989 A (ORIGIN ELECTRIC CO LTD), 22 May 1998 (1998-05-22) abstract figure 1 paragraph '0010! Y 1-4,9-12 X US 3 872 370 A (REGNAULT ALAIN) 1,2, 18 March 1975 (1975-03-18) 6-10,13,abstract figure 5 column 2, line 35-52 column 6, line 12 -column 7, line 19 Y 14 Further documents are listed in the continuation of box C. X Patent family members are listed in annex. Special categories of cited documents: later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the document defining the general state of the art which is not considered to be of particular relevance invention earlier document but published on or after the international *X* document of particular relevance; the claimed invention filing date cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docudocument referring to an oral disclosure, use, exhibition or other means ments, such combination being obvious to a person skilled document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 19 March 2004 29/03/2004 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Zettler, K-R Fax: (+31-70) 340-3016

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US 03/34219

•		PC1/US US/ 34219		
C.(Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT			
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
Υ	DE 19 29 520 A (LICENTIA GMBH) 4 February 1971 (1971-02-04) figures 1,2	14		
X	US 5 578 112 A (KRAUSE HANS W) 26 November 1996 (1996-11-26) abstract figures 2,3A,3B column 4, line 64 -column 5, line 14	15		
Y	column 5, line 65 -column 7, line 13	1		
Y	US 6 370 039 B1 (TELEFUS MARK D) 9 April 2002 (2002-04-09) abstract column 1, line 55 -column 3, line 17 figure 6B	2-4,9		
Y	SALAMA, M. M. A.; HACKAM, R.; SOLIMAN, A.: "Design of Field-Controlled Multi-Layer Insulation System" IEEE TRANSACTIONS ON ELECTRICAL INSULATION, vol. EI-21, no. 2, April 1986 (1986-04), pages 165-174, XP009028008 abstract figure 1 page 166-167	10-12		
Α	page 100 107	14		
Α	US 3 902 108 A (SION DANIEL) 26 August 1975 (1975-08-26) abstract figure 2	13		
A	US 2001/010637 A1 (SCHLECHT MARTIN F) 2 August 2001 (2001-08-02) figures 1,2 paragraphs '0004!,'0037!,'0043!	1,2,6,15		
		, śa		

2

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/US 03/34219

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
JP 10134989	Α	22-05-1998	NONE			
 US 3872370	Α	18-03-1975	FR	2177477	A1	09-11-1973
			FR	2201576	A1	26-04-1974
			BE	795990	A1	18-06-1973
			DE	2310804		06-09-1973
			GB	1425506		18-02-1976
			IT	979693		30-09-1974
			LU	67141		22-05-1973
			NL	7302970		06-09-1973
			JP	49071426		10-07-1974
DE 1929520	Α .	04-02-1971	DE	1929520	A1	04-02-1971
			ΑT	295610	В	10-01-1972
			NL	7007887	A ,B	15-12-1970
US 5578112	Α	26-11-1996	AU	5807896		18-12-1996
•			BR	9609183		25-04-2000
			CA	2221640		05-12-1996
			WO	9638229		05-12-1996
			CN	1186454		01-07-1998
			EP	0828562		18-03-1998
			JP	11506388		08-06-1999
			US 	6056808 	A	02-05-2000
US 6370039	B1	09-04-2002	US	2002015315		07-02-2002
			AU	1765101		30-05-2001
		·	WO	0137411 	A2 	25-05-2001
US 3902108	Α -	26-08-1975	FR	2216712		30-08-1974
			FR	2219624		20-09-1974
			AU	6474374		24-07-1975
			DD	110991		12-01-1975
- 1			DE	2404960		15-08-1974
			ES	422851		16-09-1976
			IT	1006799		20-10-1976
			JP	49105926		07-10-1974
			NL	7400474		05-08-1974
~			ZA	7400400 	A 	27-11-1974
US 2001010637	A1	02-08-2001	US	6222742		24-04-2001
			US	5999417		07-12-1999
			US	2003112645		19-06-2003
			AU	722043		20-07-2000
			AU	5931498		18-08-1998
			CA	2278250		30-07-1998
			EP	0954899		10-11-1999
			JP	2002514378		14-05-2002
			WO	9833267	A2	30-07-1998